Solving Equations with Variables on Both Sides

Directions: Solve each equation. Use your answer to navigate through the maze. Show your work.

START

2(4x - 3) = 5x - 18

4(x + 1) = 2x + 2

-2x + 3 = 2(2 - x)

6x - 5 = \frac{3x + 12}{2}

\frac{12 + x}{4} = -6 - \frac{x}{2}

\frac{x}{4} - 2 = x + 3

\frac{12 + 3x}{2} = \frac{4x + 6}{3}

\frac{x}{2} = 1 + 2x

x - 5(x + 1) = 5 + x

1 - \frac{x}{6} = \frac{x}{2} - 3

-7(x + 2) = x + 2

\frac{x}{4} + x = \frac{x}{2} - 3

12 + \frac{10}{x} = 10 - 12

-(x + 12) = -3x + 2

\frac{x - x}{4} = \frac{-(x + 5)}{2}

x = -1

x = 1

x = 2

x = -2

x = 3

x = -3

x = -1

x = 10

x = 8

x = -\frac{1}{2}

x = -3

x = 2

x = 1

x = 7

x = -2

Good Job! The End